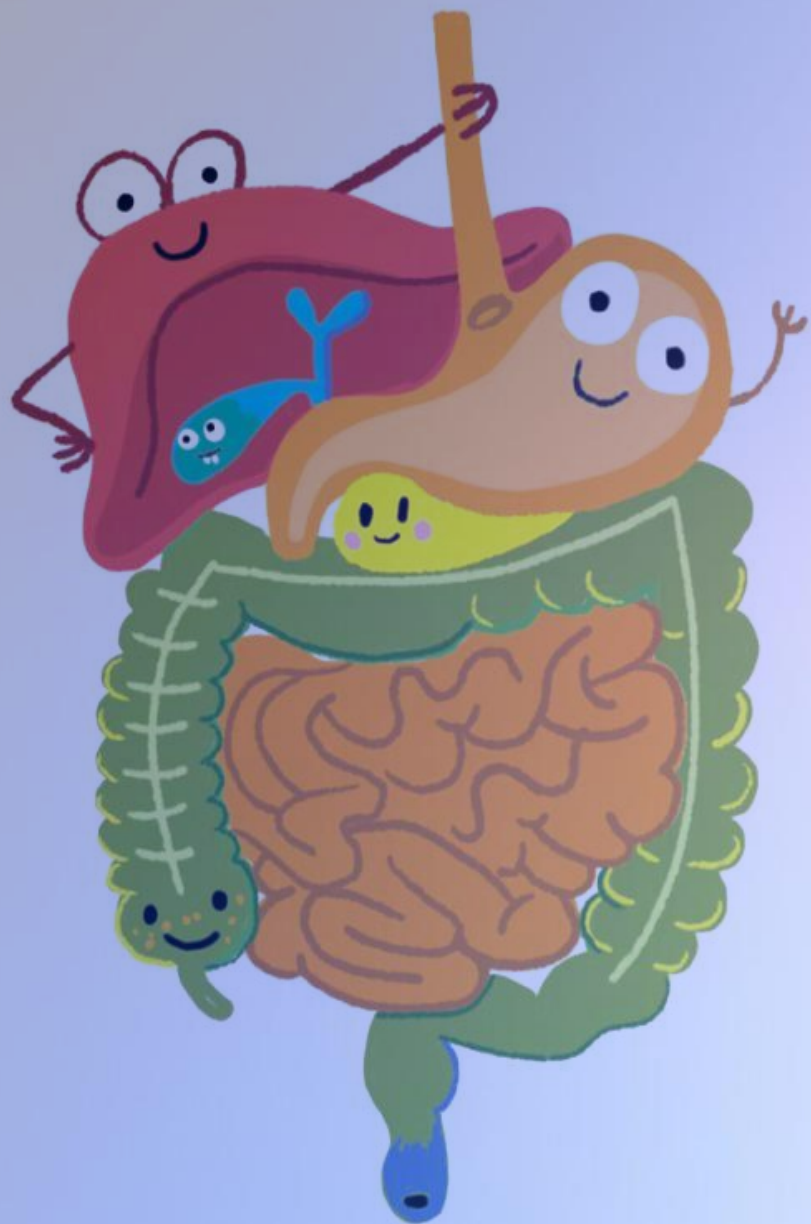


# How to Utilize Supply Management and Reduce Costs

The Par Project Initiative

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Amy Hunsicker  
does not have any  
conflicts of  
interest to  
disclose

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# Objectives:

- Explain the purpose and structure of standardized PAR levels and how they improve inventory control, room readiness, and workflow efficiency.
- Recognize the financial and operational impact of improved supply management, including cost reduction, decreased expired products and improved procedural flow.
- Demonstrate how to apply PAR standards during setup and restocking to support consistency and reduce variation across the procedure rooms.

# Understanding PAR Levels: The Foundation of Effective Inventory Control

## Definition of Par

Periodic Automatic Replenishment originated in healthcare supply chain management as a systematic approach to maintaining optimal levels based on historical usage patterns and operational patterns.

## Three-Tier Par Structure

Maintaining minimum levels prevents overstocking, ensuring continuous availability. PAR level represents the optimal quantity for operational efficiency. Maximum level prevents overstocking while controlling carrying costs.

## Predictable Inventory Patterns

Standardized PAR levels  
Create consistent inventory patterns across operations and enable data driven decision-making based on established parameters rather than reactive adjustments.

## Evidence-Based Supply Management

PAR standardization links directly to improved operational metrics including reduced overstocking, minimized waste, optimized space utilization, and enhanced supply chain predictability.

# Par Project: How it All Began? Part 1

It all began by missing a meeting! Last May there was a staff meeting. Management asked for volunteers to start up a new project called the PAR Project. It's aim was to reduce waste and help streamline ordering. I was elected to be this person.

I wasn't sure what this entailed. I met with the manager, Alyssa Tassiello, Grace Hary, a Performance Improvement Coach, and Sherry Gaines, the Supply Chain Lead. We had a group meeting and discussed what the objectives looked like. Duke was over budget for our department in 2024. They wanted me to start small. Try doing a PAR list for one to two rooms for general GI for several months to see if it was sustainable.

# PAK Project: How it Began? Part II

## The Beginning

- 05/01/25 Room 4 & 5
- PAK began by setting room guidelines for our first general GI rooms

## Phase Two

- 07/01/25 Room 3
- Adding a third room to the PAK level after two successful months of research and finding what numbers worked.

## Phase Three

- Incorporating Room 1 & 2 which are two of our more specialized rooms. This took a little more work.

## Phase Four

- This was our last phase and most recent addition. We added rooms 6 & 8 which are our specialty rooms. We do Endoscopic Ultrasound and ERCP in these rooms. We're still not completely there yet but close. This is largely my counterpart's territory, Emma!

# PAR Project: How it All Began? Part III

Now that the PAR Project has been running for coming up on one year, we have almost every room on a PAR list. It is hard! It is frustrating and not easy! Staff engagement is the number one priority. Once the General GI rooms are running on maintenance, you can tackle your more advanced rooms.

It takes coordination from management, techs, nurses, doctors, and supply chain leaders. It truly is a team effort to get this off the ground and running to maintenance.

# The Triple Impact: Room Readiness, Inventory Control, and Workflow Efficiency

## Inventory Control

Eliminating overstocking and overstocking through data-driven thresholds, reducing carrying costs and waste

## Room Readiness

Ensuring 100% procedural preparedness with standardized supply locations, enabling consistent setup times

## Workflow Efficiency

Reducing clinical staff search time by 20-30%, decreasing decision fatigue, eliminating supply-related procedure delays

Note: Quantifiable metrics demonstrating simultaneous improvements across all three dimensions

# Financial ROI: Cost Reduction Through Strategic PAR Implementation

## Direct Cost Savings

15-25% reduction in supply expenses through elimination of waste and expired products

## Carrying Cost Optimization

Lower storage space requirements and reduced capital tied up in excess inventory

## Product Expiration Prevention

Estimated \$50,000-\$150,000 annual savings from expiry reduction using FIFO and PAR-linked tracking systems

## Typical Payback Period

Break-even achieved within 6-12 months of implementation, with sustained ROI thereafter

Note: Vendor consolidation opportunities enabled by standardized ordering patterns

# Operational Excellence: Transforming Procedural Flow and Staff Productivity

## Decreased Expired Products

Tracking systems linked to PAR levels reduce expiry rates by 60-80% through improved visibility and rotation

## Improved Procedural Flow

Standardized setup reduces pre-procedure preparation time by 20-30%, enabling more efficient room turnovers

## Staff Productivity Gains

Elimination of emergency supply runs and last-minute sourcing activities, reducing stress and inefficiencies

## Quality and Safety

Consistency in supply availability enhances patient safety protocols and reduces procedural complications

**Metric Dashboards** provide real-time visibility into ongoing improvements, enabling continuous monitoring and optimization of operations metrics.

# Practical Application: Step-by-Step PAR Implementation During Setup

1.

## Pre-Procedure Setup Checklist

Reference standardized PAR thresholds for your procedure room type to establish requirements and ensure consistency across all setups.

2.

## Visual Management Tools

Use color-coded labeling or consistent labeling for your unit for shelf positioning systems to identify correct items and minimize selection errors during preparation.

3.

## Verification Protocol

Confirm actual quantities match established PAR minimums before procedures begin, validating that all requirements are met prior to proceeding for your day.

4.

## Documentation

Record setup verification digitally or manually for accountability and compliance tracking, maintaining a complete audit trail of all verification activities.

5.

## Troubleshooting

Follow escalation procedures if PAR levels cannot be maintained, avoiding last-minute supply substitutions that could compromise procedure quality.

# Mastering Restocking Protocols: Maintaining PAR Integrity Throughout Daily Operations

## Scheduled Restocking Cycles

Implement daily morning/evening restocks, weekly deep inventory reviews, and monthly comprehensive audits to maintain PAR integrity and ensure continuous operational efficiency.

## Visual System

Use visual restocking triggers with empty bin signals for immediate replenishment to maintain continuous availability with manual counting to reduce inventory management overhead.

## FIFO Rotation Principles

Ensure first-in-first out rotation is integrated with PAR standards to minimize product expiration, maintain freshness, and optimize inventory lifecycle management.

## Escalation Procedures and Staff Training

Define clear protocols when PAR levels cannot be maintained and ensure all staff complete competency verification training for monitoring restocking compliance and best practices.

# Triple Impact: PAR Supply List

## Biopsy/Polyp Supplies

Pediatric Forceps (2)  
Standard Forceps (2)  
Large Forceps (2)  
Jumbo Forceps (2)  
X-small Forceps (Boston Scientific) (2)  
Sm Oval Snare (Boston Scientific) (5)  
Small Hex Snare (2)  
Medium Hex Snare (2)  
Exacto (8)  
Lesion Hunter 10mm (5)  
Lesion Hunter 15mm (5)  
Cautery Pads (5)  
Acu Ject Needle (2)  
Needle Master (5)  
Ever Lift 10 mL (5)  
Spot 5 mL (5)  
Roth Net (3)

Traps (6)

Duette (1)

## Clips

Rite Clip 11mm (8)

Rite Clip 16mm (8)

## Dilation/ Banding

Disposable Savory Wire (3)

Big 60 (0)

Cook 6 Shooter Banding Kit (2)

Super 7 Shooter Banding Kit (2)

## Standard Kit & Set-Up

Kits (12)

Small Canisters and Lids (12)

Suction Tubing (20)

Solidifier (10)

Water (10)

Bite Blocks (10) Pd Bite Block(2)

50mL Syringes (10)

Introducer Tips (1bag)

Formalin (1box)

Specimen Kits (2 bags)

Scope Buttons (12)

Upper Pads (1Pack)

Lower Pads (Pack)

Wash Cloths (12)

Pillowcases (10)

## PPE

Gowns (1 Bag Full)

Surgical Mask (1 box)

Mask w/shield (1 box)

Gloves (1 Box each size)

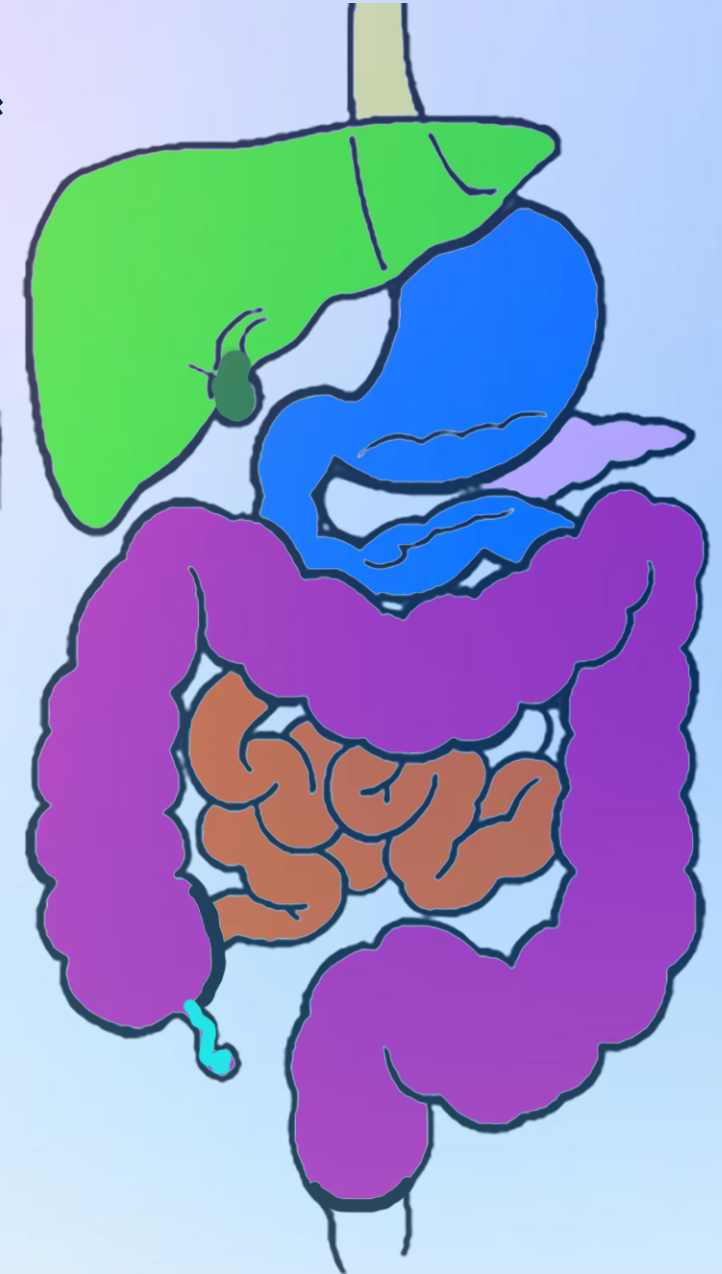
Shoe Covers (1Box each size)

## Miscellaneous

Abdominal Binders (2)

# Sample Schedule

1. EGD/ Colonoscopy
2. Colonoscopy with EMR
3. EGD for varices with possible banding
4. EGD/Colonoscopy
5. Colonoscopy for IBD
6. Colonoscopy for screening
7. EGD with Bravo and FLIP
8. EGD with FLIP
9. EGD/Colonoscopy
10. EGD



# Mastering Restocking

## Restocking

Stocking begins at the end of each room's schedule for the day. Each tech and nurse count supplies left in the room against the PAR master list. The supplies pulled from that list is the difference.

## Stock Room

Make sure your items are not under/overstocked and everything is ready for the next day. This will help for room readiness for the next day. This will include everything from kits, scope buttons, gowns, drapes, upper/lower pads, towels, formalin, and biopsy squares. This is just to name a few items.

## Supply Chain

We work hand-in-hand with supply chain. We could not do our jobs daily if it was not for our amazing staff that keeps everything running smoothly. Supply chain is such a huge part of what the PAR program entails. It is without a doubt a balancing act between departments.



Here is an example of items placed orderly in their bins for staff to get supplies at the end of the day to resupply their rooms.

# Achieving Consistency: Reducing Variation Across Procedure Rooms and Departments

## Standardization Framework

Establish identical PAR levels for identical procedure types across all procedure rooms and departments to eliminate confusion and ensure uniform supply management practices.

## Variation Analysis Tools

Use audit data to identify and eliminate unwarranted differences in current supply practices between rooms, ensuring consistent resource allocation and inventory management.

## Change Management Strategies

Address staff concerns and resistance to standardization through education, quick wins, and engagement to foster adoption and operational buy-in of the PAR project.

## Audit Protocols And Success Metrics

Conduct monthly PAR compliance reviews, track room-to-room variation (target: less than 5% deviation), measure adoption rates, and celebrate standardization wins to monitor impact on efficiency and cost.



Here is an example of FIFO and keeping your supplies in order. There are orange cones in place for items that are on backorder and not currently available.

# February 2026 Outdates:

Item:	Vendor:	Reason for Waste:	Total Cost:
Pediatric Bite Block	Steris	Expired	\$3.00
Colonoscopy Cyto Brush	Cook	Expired	\$15.40
Resolution 3660 Clip	Boston Scientific	Expired	\$286.98
Resolution 3660 Clip	Boston Scientific	Expired	\$286.98
Resolution 3660 Clip	Boston Scientific	Expired	\$286.98
Hot Biopsy Forceps	Olympus	Expired	\$26.21
Total Expired Waste:			\$905.55

# March 2026 Outdates

Item:	Vendor:	Reason For Waste:	Total Cost:
Resolution 360 Clip Ultra	Boston Scientific	Expired	\$285.60
Colonoscope Cytology Brush	Cook	Expired	\$15.40
Hot Biopsy Forceps	Olympus	Expired	\$26.21
Snaremaster	Olympus	Expired	\$24.30
60 RFA Focal Catheter	Coviden	Expired	\$1,596.00
Acu Ject Flex	Cook	Expired	\$40.00
Total Expired Wasted:			\$1,987.51

# Your Journey to PAR Excellence Begins Today!

## Key Takeaways

*PAR standardization drives measurable financial and operational outcomes; standardized practices ensure consistency and reduces waste*

## Action Items

- \*Begin facility-wide PAR audits
- \*Identify quick-win procedure areas
- \*Develop your 90-day implementation roadmap

*Thank you to GSGNA for hosting me as one of your speakers and for your commitment to supply chain management and GI excellence!*

Thank You!

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# References:

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[#3562764 | Clipart Library](#)

[Duke 2H Outdates 2026.xlsx](#)

[Maintaining accurate par levels has never been easier](#)

[PAR Levels in Inventory Management \(with Formula & Examples\) - Unleashed Software](#)

# Questions!

\*What number of scope buttons, kits, and bite blocks would you collect from clean supply at the end of the day if you had ten patients with #3 doubles? (Meaning a colonoscopy and an EGD)